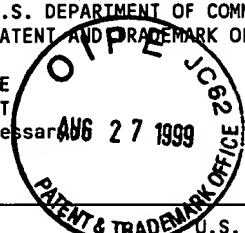


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09/192,064INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Hartoun Hartounian et al.FILING DATE
November 13, 1998GROUP
1712

(37 CFR 1.98(b))



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

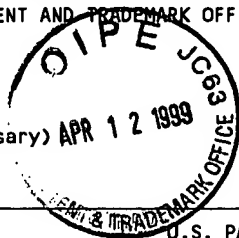
<i>lw</i>	AQ	Tanaka et al., "Communication to the Editor...Flow and Bubbling," Biotechnology and Bioengineering, Vol. 47, No. 3, Pp. 401-404 (1995).
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				FILING DATE November 13, 1998		GROUP 1712	
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EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	4	2	2	1	2	0	06/06/95	Kim	424	450	06/16/93
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	AD	5	4	5	5	0	4	4	10/03/95	Kim et al.	424	450	05/14/93
	AE	4	6	6	8	5	8	0	05/26/87	Dahm et al.	428	402.21	06/03/85
	AF	4	8	4	4	6	2	0	07/04/89	Lissant et al.	366	136	11/24/86
	AG	5	1	4	7	1	3	4	09/15/92	Bradley et al.	366	150	07/02/91
	AH	4	7	6	1	2	5	5	08/02/88	Dahm et al.	264	4.7	04/24/87
	AI	4	4	5	4	0	8	3	06/12/84	Brown et al.	264	4.7	12/21/81
	AJ	4	0	2	6	8	1	7	05/31/77	Ciuti et al.	252	312	07/03/75
	AK	3	9	4	6	9	9	4	03/30/76	Mertz et al.	259	7	04/10/74

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	AL	0280503 B1	07/04/93	European Patent Office				
	AM	PCT/US96/11642	09/13/96	International Search Report				
	AN	PCT/US94/04490	07/21/94	International Search Report				
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AQ	1.	V.G.J. Rodgers, R.E. Sparks ; AIChE Journal, "Reduction of Membrane Fouling in the Ultrafiltration of Binary Protein Mixtures", Vol. 37, No. 10, PP 1517-1528
AR	2.	John Wiley & Sons, Inc.; Communications to the Editor, "Crossflow Filtration of Baker's Yeast With Periodical Stopping of Permeation Flow and Bubbling", March 17, 1995, Vol. 47, PP 401-404
AS	3.	Sanjeev G. Redkar, Robert H. Davis; AIChE Journal; " Cross Flow Microfiltration with High Frequency Reverse Filtration"; March 1995, Vol. 41, No. 3, PP 501-508

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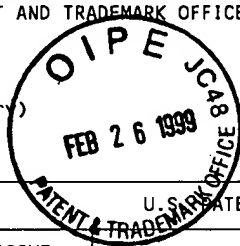
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				APPLICANT Hartoun Hartounian et al.		FILING DATE November 13, 1998	
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	BQ	4.	G. Arroyo, C. Fonade; Journal of Membrane Science; "Use of Intermittent Jets to Enhance Flux in Crossflow Filtration"; June 2, 1993, Vol 80, PP 117-129 ✓				
	BR	5.	M.Y. Jaffrin, B.B. Gupta, P. Paullier; Journal of Membrane Science; "Energy Saving Pulsatile Mode Cross Flow Filtration"; Sept. 21, 1993, PP 281-290 ✓				
	BS	6.	C. Maranges, C. Casasnovas, C. Lafforgue-Delorme; Biotechnology Techniques; "Crossflow Filtration of Saccharomyces Cerevisiae Using An Unsteady Jet"; Sept. 1995, Vol. 9, No. 9, PP 649-654 ✓				
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	CQ	7.	Yuh-Fuh Maa, Chung Hsu; Journal of Controlled Release; "Liquid-liquid emulsification by rotor/stator homogenization"; 1996; Vol. 38/2,3, PP 219-228 ✓				
	CR	8.	R.G. Holdich, I.W. Cumming, B. Ismail; Chemical Engineering Research and Design; "The Variation of Pressure Flow Filtration Rate With Wall Shear Stress and The Effect of Deposit Thickness" January 1995, Vol. 10, No. A1				
	CS		PP. 20-26 ✓				
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
J	AA	5	7	6	6	6	2	7	06/16/98	Sankaram et al.	424	450	05/23/97
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	AD	4	5	9	0	0	3	0	05/20/86	Gillner et al.	264	331.19	06/06/84
	AE	4	9	3	7	0	7	8	06/26/90	Mezei et al.	424	450	08/26/88
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AQ	Matsumoto et al., An attempt at Preparing Water-in-Oil-in-Water Multiple-Phase Emulsions, Journal of Colloid and Interface Science, Vol. 57, No.2 November 1976, pp. 353-361.
AR	Saberi, et al., Bubble size and Velocity Measurement in Gas-Liquid Systems: Application of Fiber Optic Technique to Pilot Plant Scale, The Canadian Journal of Chemical Engineering, Vol. 73, April 1995, p. 253-7.
AS	Tsuchiya et al., Tortuosity of Bubble Rise Path in a Liquid-Solid Fluidized Bed: Effect of Particle Shape
	AIChE Journal, Vol. 41, No. 6, June 1995, p. 1368-74.

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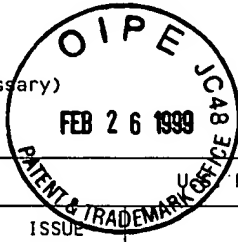
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	BQ	Chattopadhyay et al., The Protective Effect of Specific Medium Additives with Respect to Bubble Rupture, <input checked="" type="checkbox"/>					
		Biotechnology and Bioengineering, Vol. 45, Pp. 473-480, 1995					
	BR	Cherry et al., Cell Death in the Thin Films of Bursting Bubbles, American Chemical Society and American <input checked="" type="checkbox"/>					
		Institute of Chemical Engineers, Biotechnol, Vol. 8, No. 1, 1992, p.11-18.					
	BS	Michaels et al., Sparing and Agitation-Induced Injury of Cultured Animal Cells: Do Cell-to-Bubble Interaction <input checked="" type="checkbox"/>					
		in the Bulk Liquid Injure Cells, Biotechnology and Bioengineering, Vol. 51, pp. 399-409, 1996					
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CQ	Andrews et al., Boundary Layer Solution for a Bubble Rising through a Liquid Containing Surface-Active Contaminants, Ind. Eng. Chem. Res., Vol. 34, No. 4, 1995, p.1371-82.	✓
CR	Kawashima et al., Shear-Induced Phase Inversion and Size Control of Water/Oil/water/Emulsion Droplets with Porous Memberane, Journal of Colloid and Interface Science, Vol. 145, No. 2, 1991, p.512-23.	✓
CS	Watts et al., Microencapsulation Using Emulsification/Solvent Evaporation: An Overview of Techniques and Applications, Critical Reviews in Therapeutic Drug Carrier Systems, Vol. 7, Issue 3, 1990, p. 235-59.	✓

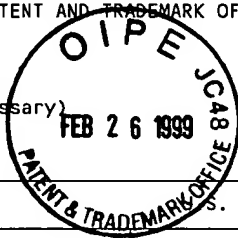
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L	DQ	L. Mancini, Food Engineering, March 1996, p. 79-83, October 1994	✓
		Mutsakis, et al. Advances in Static Mixing Technology Chem. Engineering Process, July 1986, pp. 42-48	✓
E	DR	E. Paul, Chemistry and Industry n10, p. 320(6), May 21, 1990	✓
		Steiff, et al., Don't Overlook Static-Mixer Reactors, Chemical Engineering, June 1994, Vol.1, n6, pp76-82	✓
K	DS	Kim T. et al, Extended-release formulaions of morphine for subcutaneous administrtion. Cancer Chemother	✓
		Pharmacol. 1993, Vol. 33, pages 187-190	✓

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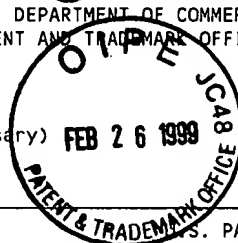
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w	EQ		Johnson, et al., Oil and Gas Journal, v. 92, n43, pp. 80-86, October 1994 ✓					
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